

**INTRINSICALLY
SAFE REMOTE**

Three approaches to protecting hazardous environments:

- **Explosion Containment**
- **Segregation**
- **Prevention**

Intrinsically safe is an act of prevention.

An intrinsically safe system is one whose energy levels are so low that they cannot generate an arc or spark and therefore cannot cause an explosion.

Intrinsically safe electronic systems are designed from the ground up in co-operation with the certifying entity.

Each and every component of the system must meet stringent requirements and have specific behavior in the event of failure.

Challenge:

- Provide a responsive tool interface
- Support the “safety” feature required to initialize some pumps
- Enclose equipment in a durable manner suited to a harsh environment
- Straightforward, field-based implementation
- Provide a certified solution protecting lives and withstanding the scrutiny of an accident investigation

The TorsionX intrinsically safe controller for electrically operated hydraulic pumps:



An intrinsically safe controller circuit enclosed in a waterproof polypropylene case, with waterproof connections for wiring to the pump, wiring to the remote hand controller and AC power in.

The TorsionX intrinsically safe controller for electrically operated hydraulic pumps:



Locking, gender specific cable connections ensure correct attachment and also allow the system to operate in the absence of the intrinsically safe controller (by-pass mode).



**The TorsionX intrinsically safe controller
for electrically operated hydraulic pumps:**

Wired solution certification:

Class I, Div 1 & 2, Group A, B, C, D;
Class II, Div 1 & 2, Group E, F, G;
Class III, Div 1 & 2



**CE Approved
Intrinsically Safe EX Rated:**

ATEX:

EXII 1G SIRA

11ATEX2317x

IECEX: EX ia IIC T4 Ga

SIR11.0148x

**Allows the transmitter to be used
in a Zone 0, Class 1, Div I, Group D
environment.**

WE ARE HERE TO SERVE YOU!

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